

Interim Australian Standard™

Ceramic tiles—Products for installation

Part 1: Adhesives—Definitions and specifications



This Australian Standard was prepared by Committee BD-044, Fixing of Ceramic Tiles. It was approved on behalf of the Council of Standards Australia on 28 March 2003. This Standard was published on 4 June 2003.

The following are represented on Committee BD-044:

Association of Consulting Engineers Australia
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Stone and Terrazzo Association
Australian Tile Council
CSIRO Manufacturing and Infrastructure Technology
Ceramic Tile Manufacturers Association
Department of Fair Trading NSW
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Part 1: Adhesives—Definitions and specifications

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PREFACE

This Interim Standard was prepared by the Standards Australia Committee BD-044 Fixing of Ceramic Tiles.

This Standard incorporates Amendment No. 1 (July 2005). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Interim Standard is to provide users of tile adhesives with specifications covering the performance requirements of adhesives.

This Interim Standard is based on ISO draft 13007 Part 1.

This Standard is Part 1 in a series of Standards on products for the installation of ceramic tiles, as follows:

AS

4992 Ceramic tiles—Products for installation

4992.1 Part 1: Adhesives—Definitions and specification (this Standard)

4992.2 Part 2: Adhesives—Test methods

Other parts in preparation are as follows:

Part 3: Grouts—Definitions and specifications

Part 4: Grouts— Test methods

The characteristics of the construction products defined in this Standard have been developed to accommodate the stresses due to the structure for which they are intended. Some special characteristics will take into account the type of substrate and that the adhesives must resist the degrading actions of climate, etc.

Many properties of adhesives for tiling are mainly determined by the type of binders used.

Definition of adhesives depends on the chemical nature of the binders. The different types have specific characteristics in terms of application properties and final performance.

The relationship between characteristics and the working conditions (dry or humid conditions, hot climate, fast setting, etc.) is not given in this Standard.

Standards Australia invites comments on this Interim Australian Standard from persons and organizations concerned with the subject of the Standard. The expiry date of comment is 2 years from the date of publication, at which time this Standard will be confirmed, withdrawn or revised in the light of public comment received. If this Interim Standard is confirmed, it will replace AS 2358.

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Interim Australian Standard Ceramic tiles—Products for installation

Part 1: Adhesives—Definitions and specifications

1 SCOPE AND APPLICATION

1.1 Scope

This Standard provides the terminology for the products, working methods and application properties for ceramic tile adhesives. It specifies the values of performance requirements for all ceramic tile adhesives, i.e., cementitious adhesives (C), dispersion adhesives (D) and reaction resin adhesives (R).

This Standard does not include criteria or recommendations for the design and installation of ceramic tiles.

1.2 Application

This Standard applies to ceramic tile adhesives for internal and external tile installations on walls and floors.

NOTE: Ceramic tile adhesives may also be used for other types of tiles (natural and agglomerated stones, etc.), where these do not adversely affect the materials.

2 REFERENCED DOCUMENTS

AS

4662 Ceramic tiles—Definitions, classification, characteristics of marking

4992 Ceramic tiles—Products for installation

4992.2 Part 2: Adhesives—Test methods

ISO

1512 Paints and varnishes—Sampling

1513 Examination and preparation of samples for testing

3 DEFINITIONS AND TERMINOLOGY

3.1 General

3.1.1 *Thin bed method*

Method used for installing (fixing) tiles onto a plane surface with an adhesive. The adhesive is usually applied with a trowel to obtain a layer and then combed with a notched trowel to achieve the right thickness and planarity.

3.1.2 *Substrate (fixing surface)*

Surface upon which the tile is installed (fixed)

3.1.3 *Wall and floor tiles*

Tiles made out of ceramic or natural and agglomerated stones.

NOTE: For a definition of ceramic tiles see AS 4662.

3.2 Products

3.2.1 *Cementitious adhesive (C)*

Mixture of hydraulic binding agents, aggregates, and organic additives. The adhesive has only to be mixed with water or liquid admix just before use.